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From: "Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com>

To: Dave Dickerson/R1/USEPA/US@EPA

Delivered Date: 05/21/2008 09:36 AM EDT

Subject: RE: Alternative 4 Volume and Disposal Assumptions

Hi Dave,

I went back to the Final Volumes, Areas and Properties report (FW June 2003) and double-checked my volumes. I come up with the same numbers?

Please provide me the source you are using for your volumes so we can match.

Anita

-----Original Message-----
From: dickerson.dave@epamail.epa.gov [mailto:dickerson.dave@epamail.epa.gov]
Sent: Tuesday, May 13, 2008 10:46 AM
To: Rigassio-Smith, Anita
Cc: stanley.elainet@epamail.epa.gov; paul.g.l'heureux@usace.army.mil; Fox, Steve (New Bedford)
Subject: RE: Alternative 4 Volume and Disposal Assumptions

Thanks Anita. My z* volume guess was pretty close. And yes, we will dredge inside and outside of the Apex Alt. 1 footprint this year and next (and maybe 2010 too??) so that the future shore-based excavation in the cove will be more manageable. And the Apex Alt. 1 CAD footprint will be the basis for the JE Alt. 4 cost estimate. (confusing, isn't it!!)

Dave

"Rigassio-Smith, Anita" <Anita.Rigassio-Smith@jacobs.com> 05/13/2008 10:13 AM

To: Dave Dickerson/R1/USEPA/US@EPA
cc: <paul.g.l'heureux@usace.army.mil>, "Fox, Steve \(New Bedford\)" <Steve.Fox@jacobs.com>, ElaineT Stanley/R1/USEPA/US@EPA
Subject

RE: Alternative 4 Volume and
Disposal Assumptions

Hi Dave,

Using the Apex Alternative #1 CAD Cell, the Z* volume to dredge is 31,732 cy. The footprint is attached to show you that on the eastern edge we allowed full Z-blocks, instead of partial Z-blocks, which the Apex coordinates would have dictated. We are verifying the other material volumes, since you suggested there is some discrepancy there.

Just to confirm, we are assuming that we are using the Apex CAD Cell Alternative #1 for the purposes of the CAD Cell Estimate #4 and for developing the CAD cell, but that the dredge footprint for the 2008 hydraulic season will remain as showin in the final execution plan, i.e., with thedog leg plus extension into the shallow areas of the cove. Any areas outside of the Apex CAD Cell #1 footprint (as shown in the attached figure) will be dredged to Z* for sediment removal purposes, but not for CAD cell development purposes.

I will let you know what we find with our evaluation of the various material volumes.

Anita

-----Original Message-----
From: dickerson.dave@epamail.epa.gov
[mailto:dickerson.dave@epamail.epa.gov]
Sent: Fri 5/9/2008 4:24 PM
To: Rigassio-Smith, Anita
Cc: paul.g.l'heureux@usace.army.mil; Fox, Steve (New Bedford);
stanley.elainet@epamail.epa.gov
Subject: Re: Alternative 4 Volume and Disposal Assumptions

Hi Anita - sorry for the delay in getting back to you. But
after
further evaluation I believe we should stick with the Apex
"Alternative
1" footprint (less contaminated organics to lower harbor CAD cell,
greater buffer zone from residential/recreational areas,
sufficient
volume, etc.).

The biggest uncertainty at this point is the volume of "unsuitable"
silts that would remain after dredging to z*. Do we have a z* estimate
for this smaller "Alt. 1" CAD cell footprint? Once I have that I can
do a better job estimating the volume of this "unsuitable" material that
would go to the lower harbor CAD cell.

Per the CAD cell report, 62,000 cy of "suitable" silts would be disposed
offshore, and 422,000 cy of clean material would be used beneficially or
disposed offshore.

Also, something doesn't look quite right on the assumed volumes from the
MUs and mudflats:

MU1 - 24:	457,000 cy
mudflats 102-105:	76,000 cy
subtotal	533,000 cy
minus	86,000 cy dredged to date
minus	~35,000 cy to z* from within CAD footprint

(this is my rough guess, to be refined by JE)

Total 412,000 cy (u.h. CAD cell just about full)

Lower Harbor CAD cell:

MU25 - 31:	110,600 cy (remaining upper harbor)
MU32 - 37':	161,000 cy (remaining lower harbor with 10k cy adjustment for MU37 due to pilot cap)
subtotal	272,000 cy
plus	~30,000 cy (very rough guess on unsuitable silts from u.h. CAD)
Total:	~302,000 cy

Hope this helps. Again, lets discuss further once a z* volume for the
Alt.1 CAD footprint has been developed.

Thanks!

Dave

"Rigassio-Smith

, Anita"

<Anita.Rigassio
To
-Smith@jacobs.c Dave
Dickerson/R1/USEPA/US@EPA
om>
cc
"Fox, Steve \(New Bedford\)"

05/05/2008 <Steve.Fox@jacobs.com>,

11:33 AM
<paul.g.l'heureux@usace.army.mil>

Subject
Alternative 4 Volume and
Disposal
Assumptions

Hi Dave,

I put this together after our discussion of Alternative 4 on
Friday.
This is what I will work from, unless you have any changes.

Anita

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